

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I declare that:

My residence, post office address and citizenship are as stated below next to my name; I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled: **Novel Telomerase** the specification of which ___ is attached hereto or X was filed on May 9, 1997 as Application No. 08/854,050 and was amended on ___ (if applicable).

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56. I claim foreign priority benefits under Title 35, United States Code, Section 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

| Country | Application No. | Date of Filing | Priority Claimed Under 35 USC 119 |
|---------|-----------------|----------------|--------------------------------------|
| | | | Yes _ No _ |
| | | | Yes _ No _ |

I hereby claim the benefit under Title 35, United States Code §119(e) of any United States provisional application(s) listed below:

| Application No. | Filing Date |
|-----------------|-------------|
| | |
| | |

I claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

| Application No. | Date of Filing | Status |
|-----------------|-----------------|---|
| 08/724,643 | October 1, 1996 | _ Patented <u>X</u> Pending _ Abandoned |
| 08/844,419 | April 18, 1997 | _ Patented <u>X</u> Pending _ Abandoned |
| 08/846,017 | April 25, 1997 | _ Patented <u>X</u> Pending _ Abandoned |
| 08/851,843 | May 6, 1997 | _ Patented <u>X</u> Pending _ Abandoned |

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

William M. Smith, Reg. No. 30,223
James M. Heslin, Reg. No. 29,541
Randolph T. Apple, Reg. No. 36,429
Greg P. Einhorn, Reg. No. 38,440

Send Correspondence to:

William M. Smith

TOWNSEND and TOWNSEND and CREW LLP

Two Embarcadero Center, 8th Floor

San Francisco, CA 94111-3834

Direct Telephone Calls to:

(Name, Reg. No., Telephone No.)

Name: Randolph T. Apple

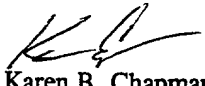

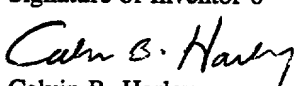

Reg. No.: 36,429

Telephone: (650)326-2400

| | | | | |
|-------------------------|---|--------------------------------------|---|-------------------|
| Full Name of Inventor 1 | Last Name Cech | First Name Thomas | Middle Name or Initial R. | |
| Residence & Citizenship | City Boulder | State/Foreign Country Colorado | Country of Citizenship United States | |
| Post Office Address | Post Office Address 1545 Rockmont Circle | City Boulder | State/Country Colorado | Zip Code 80303 |
| Full Name of Inventor 2 | Last Name Lingner | First Name Joachim | Middle Name or Initial | |
| Residence & Citizenship | City 1066 Epalinges | State/Foreign Country Switzerland | Country of Citizenship Switzerland | |
| Post Office Address | Post Office Address Pl. Croix-Blanche 25 | City 1066 Epalinges | State/Country Switzerland | Zip Code 1066 |
| Full Name of Inventor 3 | Last Name Nakamura | First Name Toru | Middle Name or Initial | |
| Residence & Citizenship | City Boulder | State/Foreign Country Colorado | Country of Citizenship Japan | |
| Post Office Address | Post Office Address 4940 Thunderbird Circlr #204 | City Boulder | State/Country Colorado | Zip Code 80303 |
| Full name of Inventor 4 | Last Name Chapman | First Name Karen | Middle Name or Initial B. | |
| Residence & Citizenship | City Sausalito | State/Foreign Country California | Country of Citizenship United States | |
| Post Office Address | Post Office Address 71 Cloud View Road | City Sausalito | State/Country California | Zip Code 94965 |
| Full Name of Inventor 5 | Last Name Morin | First Name Gregg | Middle Name or Initial B. | |
| Residence & Citizenship | City Palo Alto | State/Foreign Country California | Country of Citizenship United States | |
| Post Office Address | Post Office Address 3407 Janice Way | City Palo Alto | State/Country CA | Zip Code 94303 |
| Full Name of Inventor 6 | Last Name Harley | First Name Calvin | Middle Name or Initial B. | |
| Residence & Citizenship | City Palo Alto | State/Foreign Country California | Country of Citizenship Canada | |
| Post Office Address | Post Office Address 1730 University Avenue | City Palo Alto | State/Country CA | Zip Code 94301 |

| | | | | |
|-------------------------|---|-----------------------------|---|-------------------|
| Full Name of Inventor 7 | Last Name Andrews | First Name William | Middle Name or Initial H. | |
| Residence & Citizenship | City Richmond | State/Foreign Country CA | Country of Citizenship United States | |
| Post Office Address | Post Office Address 6102 Park Avenue | City Richmond | State/Country CA | Zip Code 94805 |
| | | | | |

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

| | | |
|---|---|---|
| Signature of Inventor 1 | Signature of Inventor 2 | Signature of Inventor 3 |
| Thomas R. Cech | Joachim Lingner | Toru Nakamura |
| Date | Date | Date |
| Signature of Inventor 4 | Signature of Inventor 5 | Signature of Inventor 6 |
|  Karen B. Chapman |  Gregg B. Morin |  Calvin B. Harley |
| Date 10/30/97 | Date 10/20/97 | Date 10/20/97 |
| Signature of Inventor 6 | | |
|  William H. Andrews | | |
| Date 10/23/97 | | |

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I declare that:

My residence, post office address and citizenship are as stated below next to my name; I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled: **Novel Telomerase** the specification of which ___ is attached hereto or X was filed on May 9, 1997 as Application No. 08/854,050 and was amended on ___ (if applicable).

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56. I claim foreign priority benefits under Title 35, United States Code, Section 119 of any foreign applications(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

| Country | Application No. | Date of Filing | Priority Claimed Under 35 USC 119 |
|---------|-----------------|----------------|--------------------------------------|
| | | | Yes _ No _ |
| | | | Yes _ No _ |

I hereby claim the benefit under Title 35, United States Code §119(e) of any United States provisional application(s) listed below:

| Application No. | Filing Date |
|-----------------|-------------|
| | |
| | |


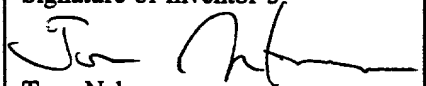
I claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

| Application No. | Date of Filing | Status |
|-----------------|-----------------|---|
| 08/724,643 | October 1, 1996 | _ Patented <u>X</u> Pending _ Abandoned |
| 08/844,419 | April 18, 1997 | _ Patented <u>X</u> Pending _ Abandoned |
| 08/846,017 | April 25, 1997 | _ Patented <u>X</u> Pending _ Abandoned |
| 08/851,843 | May 6, 1997 | _ Patented <u>X</u> Pending _ Abandoned |

| | | | | |
|-------------------------|---|--------------------------------------|---|-------------------|
| Full Name of Inventor 1 | Last Name Cech | First Name Thomas | Middle Name or Initial R. | |
| Residence & Citizenship | City Boulder | State/Foreign Country Colorado | Country of Citizenship United States | |
| Post Office Address | Post Office Address 1545 Rockmont Circle | City Boulder | State/Country Colorado | Zip Code 80303 |
| Full Name of Inventor 2 | Last Name Lingner | First Name Joachim | Middle Name or Initial | |
| Residence & Citizenship | City 1066 Epalinges | State/Foreign Country Switzerland | Country of Citizenship Switzerland | |
| Post Office Address | Post Office Address Pl. Croix-Blanche 25 | City 1066 Epalinges | State/Country Switzerland | Zip Code 1066 |
| Full Name of Inventor 3 | Last Name Nakamura | First Name Toru | Middle Name or Initial | |
| Residence & Citizenship | City Boulder | State/Foreign Country Colorado | Country of Citizenship Japan | |
| Post Office Address | Post Office Address 4940 Thunderbird Circle #204 | City Boulder | State/Country Colorado | Zip Code 80303 |
| Full name of Inventor 4 | Last Name Chapman | First Name Karen | Middle Name or Initial B. | |
| Residence & Citizenship | City Sausalito | State/Foreign Country California | Country of Citizenship United States | |
| Post Office Address | Post Office Address 71 Cloud View Road | City Sausalito | State/Country California | Zip Code 94965 |
| Full Name of Inventor 5 | Last Name Morin | First Name Gregg | Middle Name or Initial B. | |
| Residence & Citizenship | City Palo Alto | State/Foreign Country California | Country of Citizenship United States | |
| Post Office Address | Post Office Address 3407 Janice Way | City Palo Alto | State/Country CA | Zip Code 94303 |
| Full Name of Inventor 6 | Last Name Harley | First Name Calvin | Middle Name or Initial B. | |
| Residence & Citizenship | City Palo Alto | State/Foreign Country California | Country of Citizenship Canada | |
| Post Office Address | Post Office Address 1730 University Avenue | City Palo Alto | State/Country CA | Zip Code 94301 |

| | | | | |
|-------------------------|---|-----------------------------|---|-------------------|
| Full Name of Inventor 7 | Last Name Andrews | First Name William | Middle Name or Initial H. | |
| Residence & Citizenship | City Richmond | State/Foreign Country CA | Country of Citizenship United States | |
| Post Office Address | Post Office Address 6102 Park Avenue | City Richmond | State/Country CA | Zip Code 94805 |
| | | | | |

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

| | | |
|--|--|--|
| Signature of Inventor 1  Thomas R. Cech | Signature of Inventor 2 Joachim Lingner | Signature of Inventor 3  Toru Nakamura |
| Date 10-20-97 | Date | Date 10/20/97 |
| Signature of Inventor 4 Karen B. Chapman | Signature of Inventor 5 Gregg B. Morin | Signature of Inventor 6 Calvin B. Harley |
| Date | Date | Date |
| Signature of Inventor 6 William H. Andrews | | |
| Date | | |

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I declare that:

My residence, post office address and citizenship are as stated below next to my name; I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled: **Novel Telomerase** the specification of which is attached hereto or X was filed on May 9, 1997 as Application No. 08/854,050 and was amended on (if applicable).

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56. I claim foreign priority benefits under Title 35, United States Code, Section 119 of any foreign applications(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

| Country | Application No. | Date of Filing | Priority Claimed Under 35 USC 119 |
|---------|-----------------|----------------|--------------------------------------|
| | | | Yes <u> </u> No <u> </u> |
| | | | Yes <u> </u> No <u> </u> |

I hereby claim the benefit under Title 35, United States Code §119(e) of any United States provisional application(s) listed below:

| Application No. | Filing Date |
|-----------------|-------------|
| | |
| | |

I claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

| Application No. | Date of Filing | Status |
|-----------------|-----------------|---|
| 08/724,643 | October 1, 1996 | <u> </u> Patented <u> X </u> Pending <u> </u> Abandoned |
| 08/844,419 | April 18, 1997 | <u> </u> Patented <u> X </u> Pending <u> </u> Abandoned |
| 08/846,017 | April 25, 1997 | <u> </u> Patented <u> X </u> Pending <u> </u> Abandoned |
| 08/851,843 | May 6, 1997 | <u> </u> Patented <u> X </u> Pending <u> </u> Abandoned |

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

William M. Smith, Reg. No. 30,223
James M. Heslin, Reg. No. 29,541
Randolph T. Apple, Reg. No. 36,429
Greg P. Einhorn, Reg. No. 38,440

| | |
|---|---|
| Send Correspondence to: William M. Smith TOWNSEND and TOWNSEND and CREW LLP Two Embarcadero Center, 8th Floor San Francisco, CA 94111-3834 | Direct Telephone Calls to: (Name, Reg. No., Telephone No.) Name: Randolph T. Apple Reg. No.: 36,429 Telephone: (650)326-2400 |
|---|---|

| | | | | |
|-------------------------|---|--------------------------------------|---|-------------------|
| Full Name of Inventor 1 | Last Name Cech | First Name Thomas | Middle Name or Initial R. | |
| Residence & Citizenship | City Boulder | State/Foreign Country Colorado | Country of Citizenship United States | |
| Post Office Address | Post Office Address 1545 Rockmont Circle | City Boulder | State/Country Colorado | Zip Code 80303 |
| Full Name of Inventor 2 | Last Name Lingner | First Name Joachim | Middle Name or Initial | |
| Residence & Citizenship | City 1066 Epalinges | State/Foreign Country Switzerland | Country of Citizenship Switzerland | |
| Post Office Address | Post Office Address Pl. Croix-Blanche 25 | City 1066 Epalinges | State/Country Switzerland | Zip Code 1066 |
| Full Name of Inventor 3 | Last Name Nakamura | First Name Toru | Middle Name or Initial | |
| Residence & Citizenship | City Boulder | State/Foreign Country Colorado | Country of Citizenship Japan | |
| Post Office Address | Post Office Address 4940 Thunderbird Circle #204 | City Boulder | State/Country Colorado | Zip Code 80303 |
| Full name of Inventor 4 | Last Name Chapman | First Name Karen | Middle Name or Initial B. | |
| Residence & Citizenship | City Sausalito | State/Foreign Country California | Country of Citizenship United States | |
| Post Office Address | Post Office Address 71 Cloud View Road | City Sausalito | State/Country California | Zip Code 94965 |
| Full Name of Inventor 5 | Last Name Morin | First Name Gregg | Middle Name or Initial B. | |
| Residence & Citizenship | City Palo Alto | State/Foreign Country California | Country of Citizenship United States | |
| Post Office Address | Post Office Address 3407 Janice Way | City Palo Alto | State/Country CA | Zip Code 94303 |
| Full Name of Inventor 6 | Last Name Harley | First Name Calvin | Middle Name or Initial B. | |
| Residence & Citizenship | City Palo Alto | State/Foreign Country California | Country of Citizenship Canada | |
| Post Office Address | Post Office Address 1730 University Avenue | City Palo Alto | State/Country CA | Zip Code 94301 |

| | | | | |
|-------------------------|---|-----------------------------|---|-------------------|
| Full Name of Inventor 7 | Last Name Andrews | First Name William | Middle Name or Initial H. | |
| Residence & Citizenship | City Richmond | State/Foreign Country CA | Country of Citizenship United States | |
| Post Office Address | Post Office Address 6102 Park Avenue | City Richmond | State/Country CA | Zip Code 94805 |
| | | | | |

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

| | | |
|---|---|---|
| Signature of Inventor 1 Thomas R. Cech | Signature of Inventor 2 <i>J. Lingner</i> Joachim Lingner | Signature of Inventor 3 Toru Nakamura |
| Date | Date 10/10/97 | Date |
| Signature of Inventor 4 Karen B. Chapman | Signature of Inventor 5 Gregg B. Morin | Signature of Inventor 6 Calvin B. Harley |
| Date | Date | Date |
| Signature of Inventor 6 William H. Andrews | | |
| Date | | |